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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,535	02/05/2004	Claude Singer	1662/62802	6797
26646 7590 07/18/2007 KENYON & KENYON LLP ONE BROADWAY			EXAMINER	
			MORRIS, PATRICIA L	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			1625	
			MAIL DATE	DELIVERY MODE
			07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/773,535	SINGER ET AL.				
		Examiner	Art Unit				
		Patricia L. Morris	1625				
	The MAILING DATE of this communication app	pears on the cover sheet with	the correspondence address				
Period for Reply							
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl will apply and will expire SIX (6) MONTH , cause the application to become ABAN	ATION. ly be timely filed IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status		•					
1)⊠	Responsive to communication(s) filed on 04 M	lay 2007.					
· ·	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-40 and 42-53</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>1-32,39,40 and 46-53</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠	6) Claim(s) 33-38 and 42-45 is/are rejected.						
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers						
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
·	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (inder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		•					
Attachmen		_					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		mmary (PTO-413) Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Claims 33-38 and 42-45 are under consideration in this application.

Claims 1-32, 39, 40 and 46-53 remain held withdrawn from consideration as being drawn to nonelected subject matter 37 CFR 1.142(b).

Election/Restrictions

The restriction requirement is deemed sound and proper and is hereby made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 33-38 and 42-45 are rejected under 35 U.S.C. 102(a), (b) and/or (e) as being anticpated by Vrecer et al., Kotar et al., Choi et al., Nohara et al., Kato et al and Avrutov et al. I, I for the reasons set forth in the previous Office action.

Again, Vrecer et al., Kotar et al., Choi et al., Nohara et al., Kato et al. and Avrutov I, II specifically disclose the instant compound and compositions. Note, example 1 of Choi et al, examples 2-16 of Singer et al. or claim 7 of Kato et al.. Hence, the instant compound is deemed anticipated therefrom.

Applicants appear to couch most of their arguments in the patentability of the process. However, applicants' claims are drawn to compounds and pharmaceutical compositions only.

Applicants allege that they have shown in examples 2 and 3 in the specification that the claimed stable compound is much more stable than the prior art compound. However, applicants have failed to show any unobvious properties *vis-à-vis* the prior art compounds cited in the references of record. Applicants admit that their compounds are not pure. No objective evidence has been presented establishing any unbvious properties for the claimed impure compounds *vis-à-vis* the impure prior art compounds. Allegations by applications do not take place of objective evidence showing that the alleged "stable" compound is any different from the prior art. See Brittain, page 185.

Claim Rejections - 35 USC ≥ 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 33-38 and 42-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Vcer et al., Kotar et al., Choi et al., Nohara et al., Kato et al., and Avrutov et al. I, II in view of Hableblian et al., Chemical & Engineering News, US Pharmacopia, Muzaffar et al., Jain et al., Taday et al, Concise Encyclopedia Chemistry and Brittain et al. for the reasons of record.

Again, the references teach the stable crystal forms of the instant known compound and as well as the pharmaceutical compositions. Note claim 7 of Kato et al., example 1 of Choi et al. or example 3 of Avrutov et al. II. Habeblian et al., Muzaffar et al., Jain et al. and Taday et al. teach that the compounds exist in different crystalline forms. Chemical & Engineering News, Muzaffar et al., US Pharmacopia and Concise Encyclopedia teach that at any particular temperature and pressure, only one crystalline form is thermodynamically stable. Hence the claimed crystalline form as well as its relative selectivity of properties *vis-a-vis* the known compound are suggested by the references. It would appear obvious to one skilled in the art in view of the references that the instant compound would exist in different stable crystalline forms. No unexpected or unobvious properties are noted.

Applicants assert that they are claiming a chemically stable compound. As discussed supra, applicants have failed to provide any objective evidence establishing that the instant alleged stable compound is any more stable then the **prior art compounds cited in the references of record.** Note page 185, lines 4-7 of Brittain et al.

Claim Rejections - 35 USC → 112

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 36-38 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Again, there is a lack of description as to whether the compositions are able to maintain the compound in the stable form claimed. Processing a compound into a pharmaceutical composition could create a different form than the crystalline form being claimed or even back to the compound itself. See pages 912-913 of Habeblian. Doelker et al. Abstract, "One may also observe changes in technology or pharmaceutical properties that are due to polymorphic environmental conditions undergone by the product or dosage form." Taday et al. p 831...Once in the desired crystalline form, the polymorphic form may be changed by incorrect storage or even during tablet preparation" and p. 836, figure 8, wherein the compound form four in the pharmaceutical composition resulted in similar spectra. The specification fails to describe the pharmaceutical compositions claimed in terms of their X-ray diffraction pattern or infrared spectrum data.

Contra to applicants' arguments in the instant response, applicants have failed to provide any objective evidence that the instant stable form is indeed maintained in the compositions. Applicants merely assert that the instant compounds are not polymorphs.

However, the instant compounds behave similarly to polymorphs. The specification lacks description that the pharmaceutical compositions contain the "stable form" without transformation. Applicants allege that the instability of the compound is caused by chemical changes. The prior art of record clearly show that pharmaceutical preparing processes causes changes.

The specification lacks direction or guidance for placing all of the alleged products in the possession of the public without inviting more than routine experimentation. Applicants are referred to <u>In re Fouche</u>, 169 USPQ 429 CCPA 1971, MPEP 716.02(b).

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is undue. These factors include 1) the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art, 6) the amount of direction provided by the inventor, 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

The nature of the invention

The nature of the invention is the preparation of the instant compositions containing a chemically stable compound.

State of the Prior Art

The pharmaceutical formulation field is well aware that compounds when formulated into compositions may under transformation, thus a particular form may not be the same after

processing, compressing, etc., (See Chemical Engineering News, pages 43-35. Therefore, in absence of any description or factual evidence, how a crystalline form can be maintained in a composition to minimize transformation, no assumption can be made that the alleged stable form will be maintained upon compression, tableting, etc.

The amount of direction or guidance and the presence or absence of working examples

The specification fails to disclose the X-ray diffraction pattern and infrared spectra of the asserted stable compound or compositions containing the stable form. Polymorphs often change into other forms during drug manufacture into a pharmaceutical composition. Based on the unpredictability in the art, the applicant is not entitled to the X-ray diffraction patterns claimed for the compounds and pharmaceutical compositions.

The breadth of the claims

The breadth of the claim are drawn to the specific stable form and in addition to the pharmaceutical compositions.

The quantity of experimentation needed

The quantity of experimentation needed would be undue when faced with the lack of direction and guidance present in the instant specification in regards to the pharmaceuticals compositions being claimed and verifying that the stable form stays in the same form.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 33-38 and 42-45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Again, claims 33-35 are improper product by process claims. Again, original claim 41 demonstrates that applicants are able to describe the instant compound here without resorting to the process. Again, claims 33-35 are improper here. Product-by-process claims are not proper in the same application where it has been demonstrated that the compound in question may be described by means of a chemical structure. In re Hughes, 182 USPQ 106 (CCPA 1974). Contra to applicants' arguments in the instant response, applicants are merely claiming a compound well known in the art and the process steps are merely conventional. No objective evidence has been presented that the compounds can only be produced by the process recited in the specification.

Again. the expression "containing" in claims 42 and 43 is open-ended and allows for the inclusion of other parameters not contemplated by applicants.

Again, claims 33-38 and 42-45 contains the generic name lansoprazole. Where a generic name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of 35 U.S.C. 112, second paragraph. See *Ex parte Simpson*, 218 USPQ 1020 (Bd. App. 1982). The claim scope is uncertain since the generic name cannot be used properly to identify any particular material or product. A generic name is used to identify a source of goods, and not the goods themselves. In the present case, the generic name is used to identify/describe a compound have a specific chemical structure and, accordingly, the identification/description is indefinite. Contra to applicants' arguments in the instant response, the name does **not** describe the chemical structure of the compound.

Again, claim 45 lacks antecedent basis for the recited limitations. Contra to applicants assertions in the instant response, there is no basis at all for six months in claim 45. Claim 44 recites only three months.

The claims measure the invention. <u>United Carbon Co. V. Binney & Smith Co.</u>, 55 USPQ 381 at 384, col. 1, end of 1st paragraph, Supreme Court of the United States (1942).

The U.S. Court of Claims held to this standard in Lockheed Aircraft Corp. v. United States, 193 USPQ 449, AClaims measure invention and resolution of invention must be based on what is claimed.

The C.C.P.A. in 1978 held a that invention is the subject matter defined by the claims submitted by the applicant. We have consistently held that no applicant should have limitations of the specification read into a claim where no express statement of the limitation is included in the claim. In re Priest, 199 USPQ 11, at 15.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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Claims 33-38 and 42-45 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 and 29-38 of copending Application No. 10/717,325 in view of view of Haleblian et al., Chemical & Engineering News, US Pharmacopia, Muzaffar et al., Jain et al., Taday et al., Brittain et al. and Concise Encyclopedia Chemistry for the reasons set forth in the record.

This is a <u>provisional</u> obviousness-type double patenting rejection.

A terminal disclaimer has not been received too date.

Conclusion

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia L. Morris whose telephone number is (571) 272-0688. The examiner can normally be reached on Mondays through Fridays.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patricia L. Mortis Primary Examiner Art Unit 1625

plm July 12, 2007